

I. AMENDMENTS

In the Claims:

Please amend claims 1-6 as follows:

1. (Twice amended) An isolated nucleic acid molecule consisting of a [coding sequence for an immunogenic *Streptococcus uberis* CAMP factor, wherein the coding sequence [is] selected from the group consisting of: (a) a sequence [encoding an amino acid sequence] having at least about [90%] 80% identity to the [amino acid] nucleotide sequence shown at positions [1 through 256] 157 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:[2]1); and (b) a sequence encoding an amino acid sequence having at least about [90%] 80% identity to the [amino acid] nucleotide sequence shown at positions [29 through 256] 241 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:[2]1); and (c) immunogenic fragments of (a) or (b) comprising at least 10 contiguous amino acids thereof].

2. (Three times amended) The nucleic acid molecule of claim 1 wherein said [coding] sequence [encodes an amino acid sequence having] has at least about 90% identity to the [amino acid] nucleotide sequence shown at positions [1 through 256] 157 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:[2]1).

3. (Three times amended) The nucleic acid molecule of claim 1 wherein said [coding] sequence [encodes an amino acid sequence having] has at least about 90% identity to the [amino acid] nucleotide sequence shown at positions [29 through 256] 241 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:[2]1).

4. (Twice amended) A recombinant vector comprising:

- (a) a nucleic acid molecule comprising a [coding sequence for an immunogenic *Streptococcus uberis* CAMP factor, wherein the coding] sequence [is] selected from the group consisting of: ([a]i) a sequence [encoding an amino acid sequence] having at least about [90%] 80% identity to the [amino acid] nucleotide sequence shown at positions [1 through 256] 157 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:[2]1); and ([b]ii) a sequence [encoding an amino acid sequence] having at least about [90%] 80% identity to the [amino acid] nucleotide sequence shown at positions [29 through 256] 241 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:[2]1); and [(c) immunogenic fragments of (a) or (b) comprising at least 10 contiguous amino acids thereof; and]
- (b) control elements that are operably linked to said nucleic acid molecule whereby said coding sequence can be transcribed and translated in a host cell, and at least one of said control elements is heterologous to said coding sequence.

5. (Twice amended) A recombinant vector according to claim 4, wherein said nucleic acid molecule comprises a [coding] sequence [encoding an amino acid sequence] having at least about 90% identity to the [amino acid] nucleotide sequence shown at positions [1 through 256] 157 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:[2]1).

6. (Twice amended) A recombinant vector according to claim 4, wherein said nucleic acid molecule comprises a [coding] sequence [encoding an amino acid sequence] having at least about 90% identity to the [amino acid] nucleotide sequence shown at positions [29 through 256] 241 through 924, inclusive, of Figures 4A-4C (SEQ ID NO:[2]1).